



**SPECIAL DATA COLLECTION SYSTEM EVENT REPORT**  
**Turkey, 27 March 1975**

J.R.Woolson, D.D.Solari, M.S.Dawkins, K.J.Hill, and R.J.Markle  
Alexandria Laboratories ✓

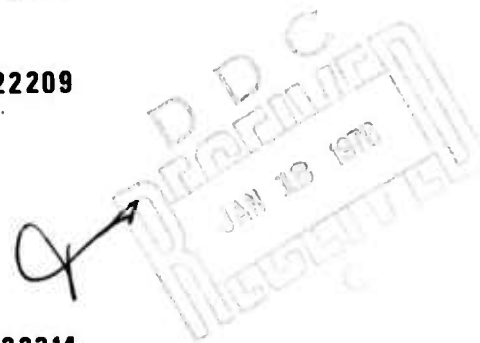
Teledyne Geotech, 314 Montgomery Street, Alexandria, Virginia 22314

September 1975

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405601

✓B

SDCS Event Report No. 16

Turkey, 27 March 1975

This event report contains seismic data from the Special Data Collection System (SDCS), and other sources for the above event. Published epicenter information from seismic observations is:

	Origin Time	Latitude	Longitude	$m_b$	$M_s$
NORSAR	05:15:38	42.6N	024.0E	5.3	N/A
LASA	05:15:39	42.8N	026.4E	5.6	N/A
PDE	05:15:06	40.4N	026.1E	5.7	6.7
Hagfors Array, Sweden	05:15:04	40 N	026 E	5.6	N/A

Using SDCS stations, LASA and NORSAR, the epicenter location and magnitudes become

05:15:07	40.6N	026.7E	5.6	6.4
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FN-WV was not operational for this event.

All operational SDCS stations, LASA and NORSAR recorded short-period signals associated with this event. The magnification of the CPSO vertical channel is unknown. The number of instruments contributing to the summation calibration was not recorded. The time correction at WH2YK was approximately minus 9 minutes and 30 seconds.

Long-period signals were recorded at all operational SDCS stations. The LP transverse channel at WH2YK was inoperative. The CPSO LP radial magnification is unknown. Clipped signals appear on the LP transverse channel at HN-ME and the E-W channel at CPSO. No low-gain data for these channels was available. Array long-period data was not recoverable.

Short-period horizontal channels at RK-ON, WH2YK, and HN-ME have been rotated to orientations radial and transverse relative to this event location. Rotation was also performed on long-period channels at RK-ON.

Scaling factors on plots are millimicrons at 1 Hz (not corrected for instrument response) with the exception of LASA and NORSAR short-period plots. LASA SP scaling factors are millimicrons per inch. Scaling factors are not reported for NORSAR short-period.

# STATION DESCRIPTION

SITE CODE	LOCATION	SITE COORDINATES DEG MN SECS	ELEVATION METERS	INSTRUMENTATION	
				SHORT - PERIOD	LONG - PERIOD
ALPA	Alaska	65 14 00.0 N 147 44 36.0 W	626	None	31300
CPSO	McMinnville, Tennessee	35 35 41.4 N 085 34 13.5 W	574	6480 V 7515 H	SL210 V SL220 H
FN-WV	Franklin, West Virginia	38 32 58.0 N 079 30 47.0 W	910	KS36000	KS36000
LASA	Billings, Montana	46 41 19.0 N 106 13 20.0 W	744	HS10	7505A V 8700C H
HN-ME	Houlton, Maine	46 09 43.0 N 067 59 09.0 W	213	18300	SL210 V SL220 H
NORSAR	Kjeller, Norway	60 49 25.4 N 010 49 56.5 E	379	HS10	7505A V 8700C H
RK-ON	Red Lake, Ontario	50 50 20.0 N 093 40 20.0 W	366	18300	SL210 V SL220 H
WH2YK	White Horse, Yukon	60 41 41.0 N 134 58 02.0 W	853	18300	SL210 V SL220 H

# HYPOCENTER DETERMINATION

INPUT FOR EVENT 27 MAR 75  
 05:15:39.0 42.800N 26.400E 0KM.

STA.	ARRIVAL	RESIDUALS		DIST.	AZ.
		CALC	REST		
NAO	05 20 06.7	-0.0	-0.0	22.5	339.4
HN-ME	05 25 47.9	0.3	0.3	65.0	310.2
PK-ON	05 26 49.3	-0.4	-0.5	75.1	325.5
WH2YK*	05 36 38.3	572.5 *	572.5 *	78.0	350.9
CPO	05 27 27.6	-0.3	-0.3	82.0	310.4
LAC	05 27 36.2	0.5	0.5	83.5	329.5

## 67 HERRIN TRAVEL TIME TABLES

ORIGIN	LAT.	LONG.	DEPTH (KM)	SDV	IT	STA
05:15:14.5	40.788N	26.591E	45. CALC	0.4	10	5
05:15:06.8	40.598N	26.744E	0. REST	0.4	3	5

CALC

```

  0 . 0
  4 . 0
0 1. 0 0
. . . . .
0 0. 0 0
  0 . 0
  0 . 0
  
```

REST

```

  0 . 0
  4 . 0
0 1. 0 0
. . . . .
0 0. 0 0
  0 . 0
  0 . 0
  
```

CHI2 COVERAGE ELLIPSE; 95 PER CENT CONF..LEVEL, SDV= 1.06  
 MAJOR 163.9KM. MINOR 59.5KM. AZ= 94 AREA= 30643 SQ.KM. REST

# DATA SUMMARY

INPUT FOR EVENT 27 MAR 75  
05:15:39.0 42.800N 26.400E OKM.

STA.	PHASE	ARRIVAL		INST	PER	A/T	MAGNITUDE		DIR	DIST
		TIME					MB	MS		
NAO	EP	05 20	06.7	AB	1.1	379.	5.53			22.5
HN-ME	EP	05 25	47.9	SPZ	1.2	21.	5.02			65.0
HN-ME	LR	05 54	53.0	LPZ	17.0	3538.		6.48		65.0
PK-ON	EP	05 26	49.3	SPZ	0.8	166.	5.73			75.1
PK-ON	LQ	05 54	54.0	LPT	25.0	1310.				
PK-ON	LR	05 58	20.0	LPZ	22.0	3401.		6.53		75.1
WH2YK*	EP	05 36	38.3	SPZ	0.9	25.	5.00			78.0
WH2YK	LQ	06 04	07.0	LPT	33.0	2281.				
WH2YK	LR	06 10	56.0	LPZ	23.0	1236.		6.10		78.0
CPO	EP	05 27	27.6	SPZ	0.9	??				
CPO	LQ	05 56	54.0	LPE	26.0	CLIPPED				
CPC	LR	06 02	42.0	LPZ	21.0	2400.		6.41		82.0
LAO	EP	05 27	36.2	AB	1.1	197.	5.99			83.5

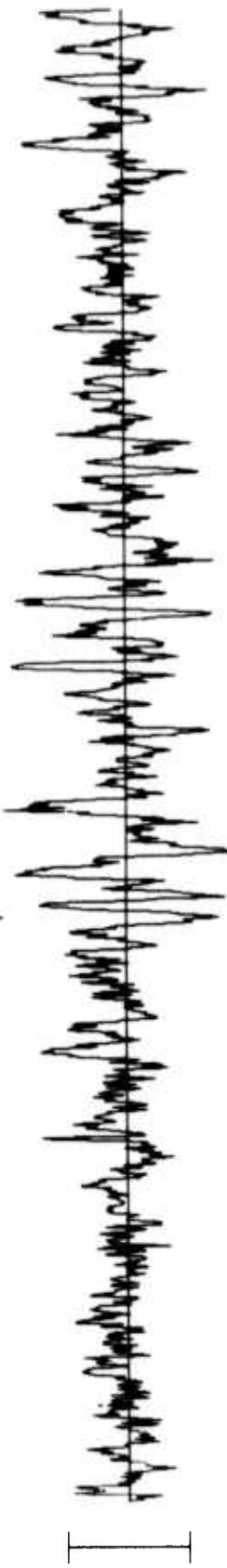
ORIGIN	LAT.	LONG.	DEPTH (KM)	MAG	SDV	STA	LP MAG	LP SDV	LP STA
05:15:14.5	40.788N	26.591E	45. CALC	5.46	0.42	4	6.38	0.2	4
05:15:06.8	40.598N	26.744E	0. REST	5.57	0.41	4	6.38	0.2	4

HN-ME 27 MAR 75

SPZ  
8.90 MU



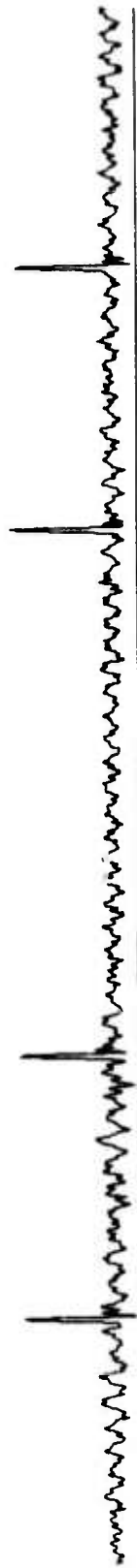
SPR  
4.41 MU



SPT  
6.02 MU



TIME



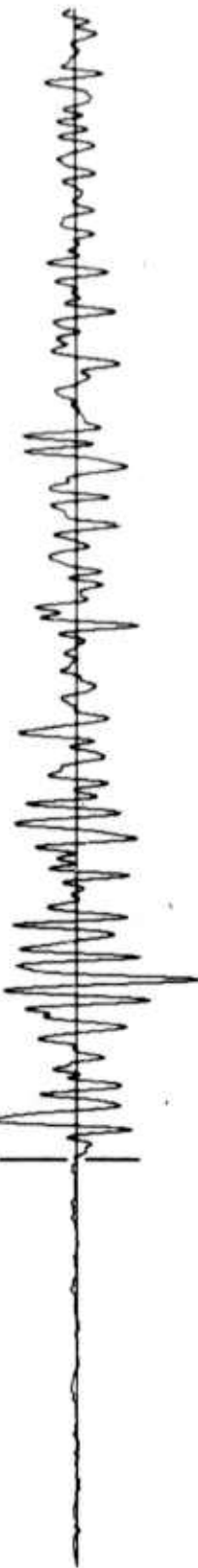
10 SEC

05:25:50



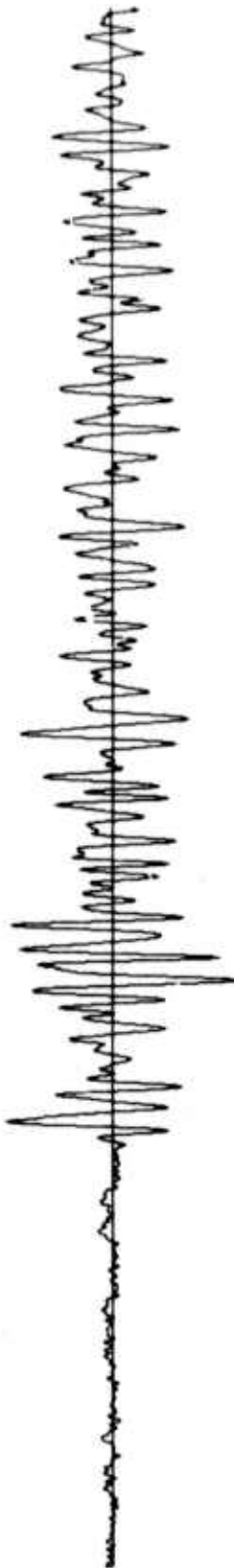
RK-ON 27 MAR 75

05:26:49.3



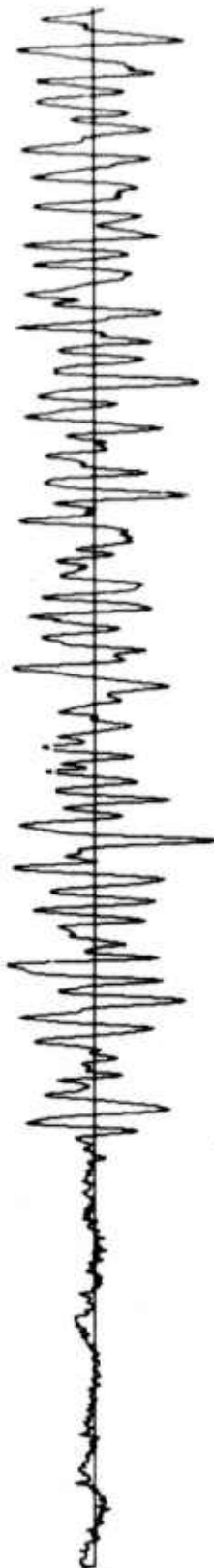
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SPZ  
142.84 MU



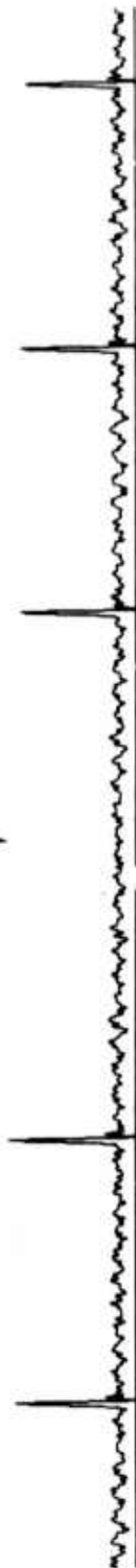
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SPR  
54.55 MU



I

SPT  
33.89 MU



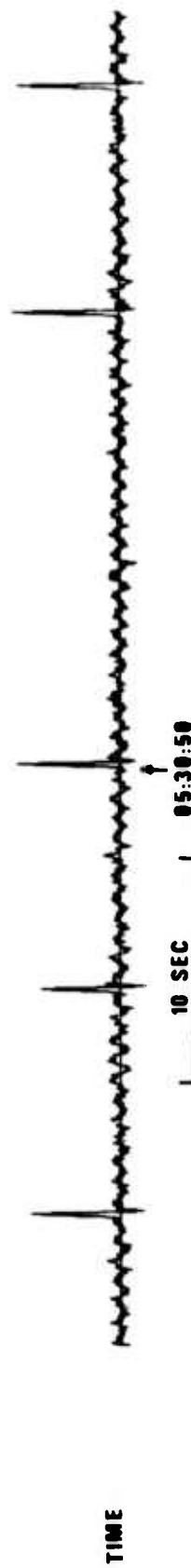
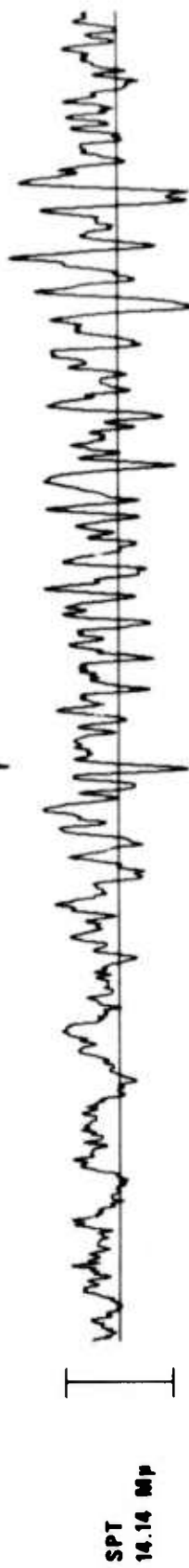
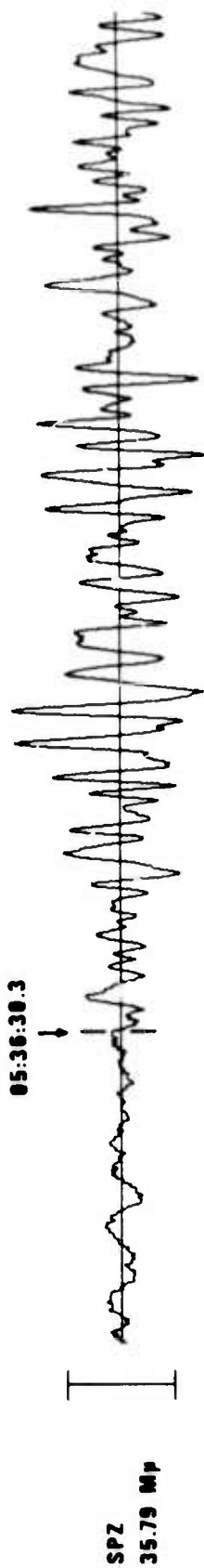
TIME



05:26:50

10 SEC

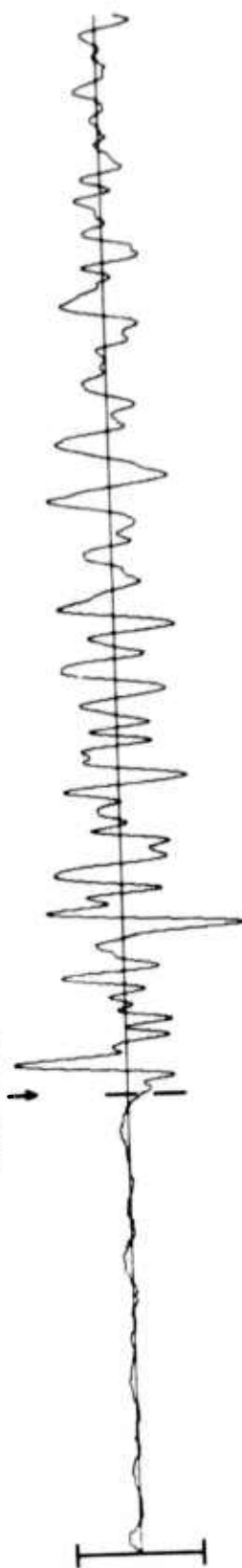
WH2YK 27 MAR 75



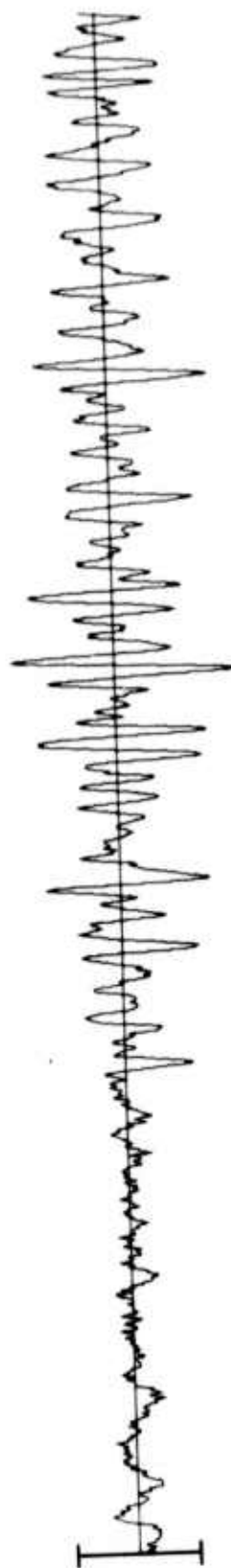
(APPROXIMATE -9 MINUTE 30 SECOND TIME CORRECTION)

CPSG 27 MAR 75

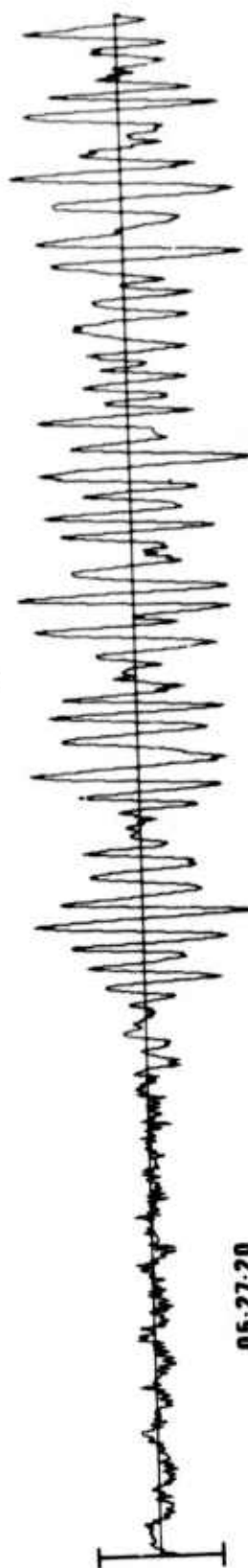
05:27:27.6



SUM  
Unknown

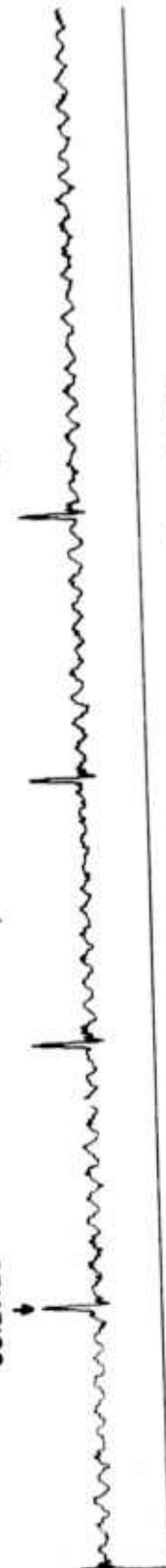


SPN  
49.90 Mμ



SPE  
32.50 Mμ

05:27:20



TIME

10 SEC

\*number of instruments contributing to summation unknown

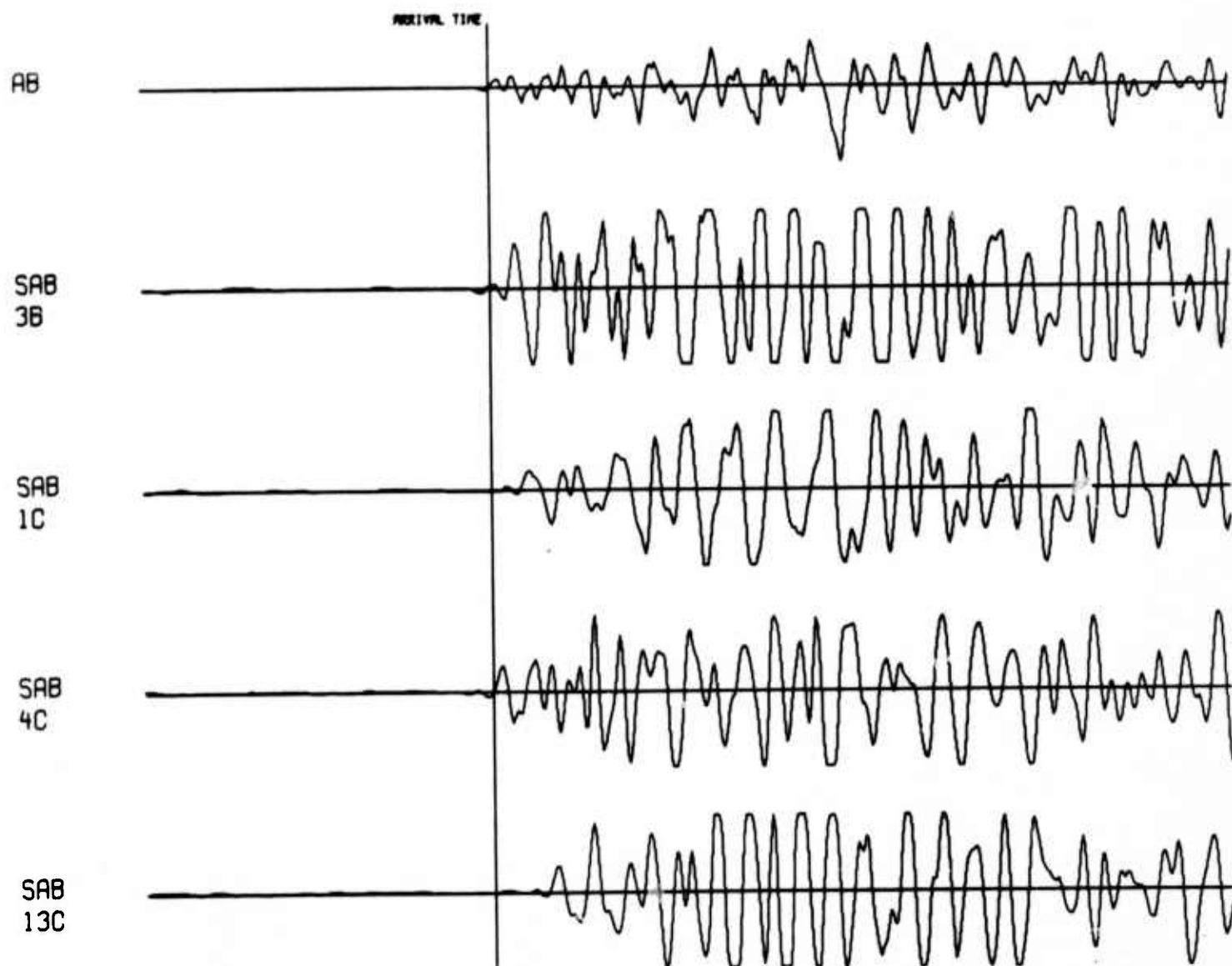
# NORSAR EVENT FILE

1975 MAR 27

EPX NO. 74960 ARR. 5.20.6.3 38.ON 21.0E 4.7MB 33KM

DIST = 23.7 AZI = 159.7 AMP = 22.7 PER = 0.9 UMETH D

SCALE  = 5 SECONDS



# LASA

1 27 MAR 1975

2 5 15 39 42.8N 26.4E 175G B 5.5 359 BULGARIA

3 5 27 36.4 LAO P 123.6 1.6 21.3 81.6 33.2

EPX 73020

BP-B 0.6-2.0 HZ

ABN 11

05:27:26.4

AB 230

FAB 130

PAB1 110

PAB2 89

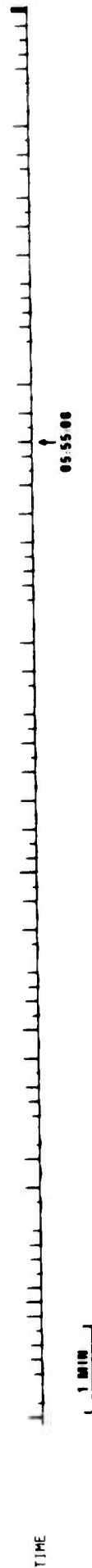
PAB3 83

PAB4 110

10 SEC

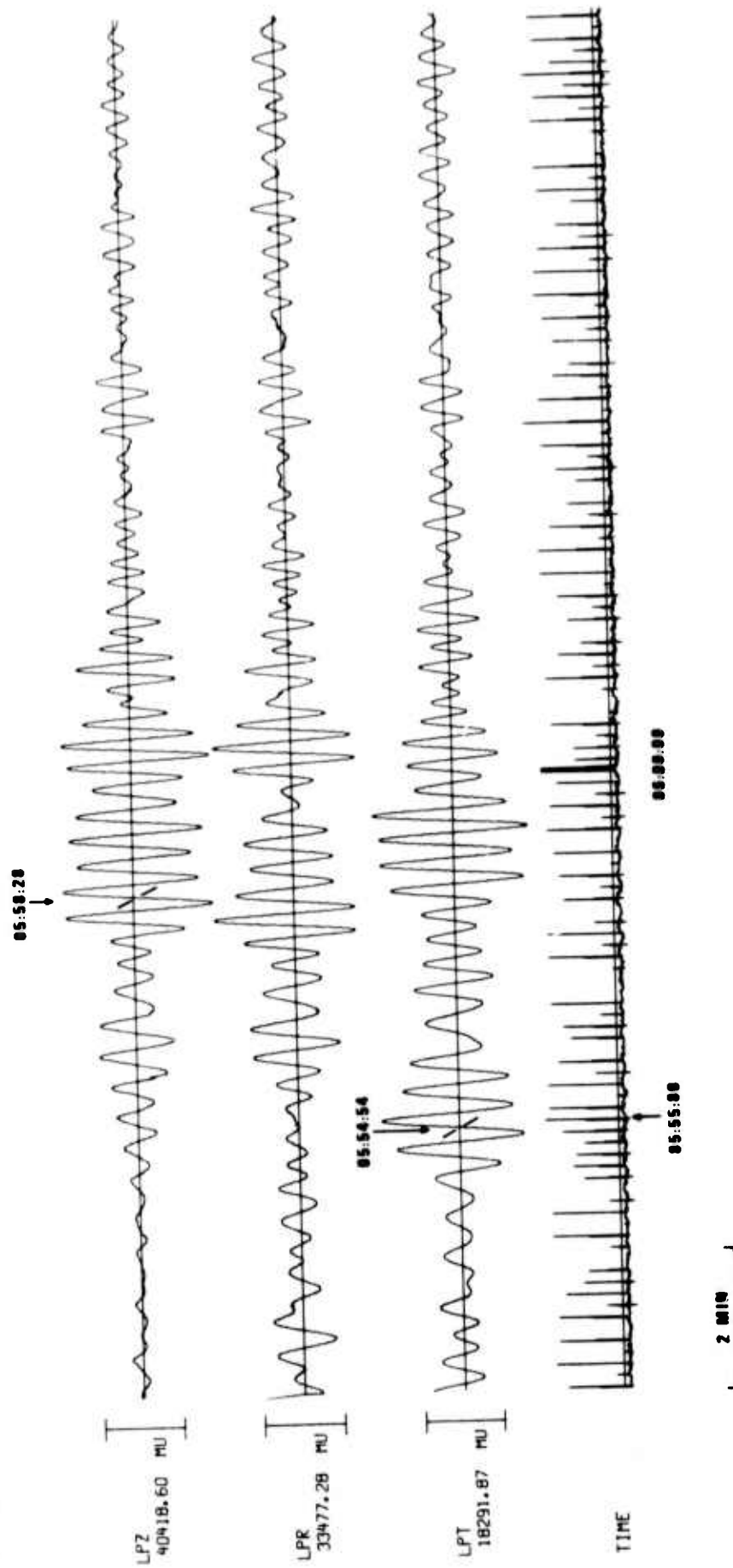
HM-ME 27 MAR 75

05 54 53

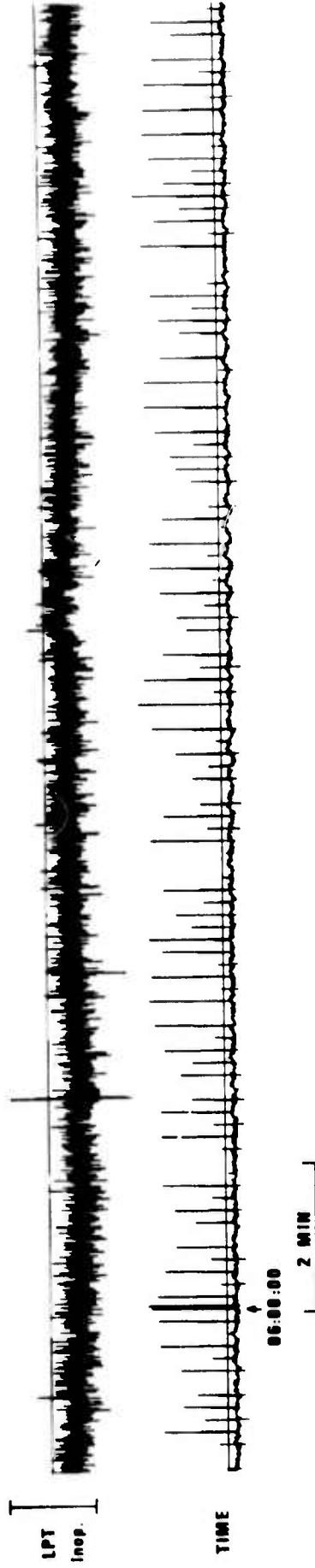
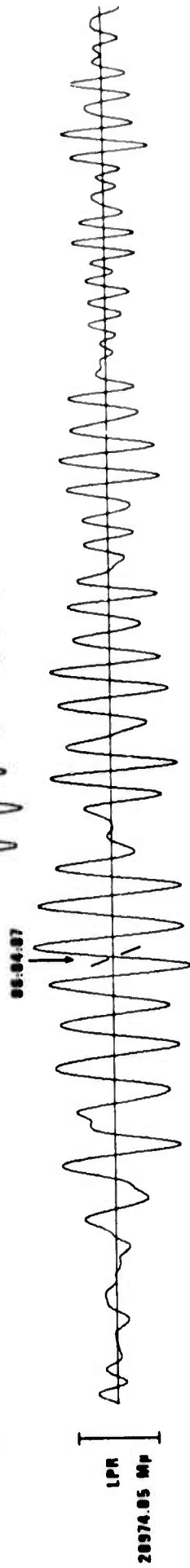
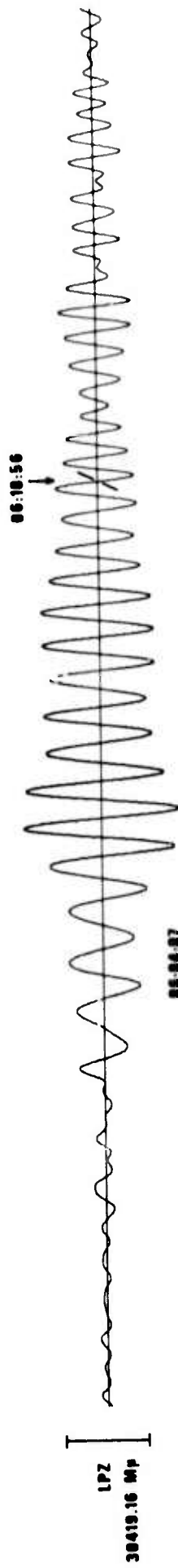




RK-ON 27 MAR 75



WH2YK 27 MAR 75



(APPROXIMATE -9 MINUTE 30 SECOND TIME CORRECTION)



CPS0 27 MAR 75

